

FIG. 1

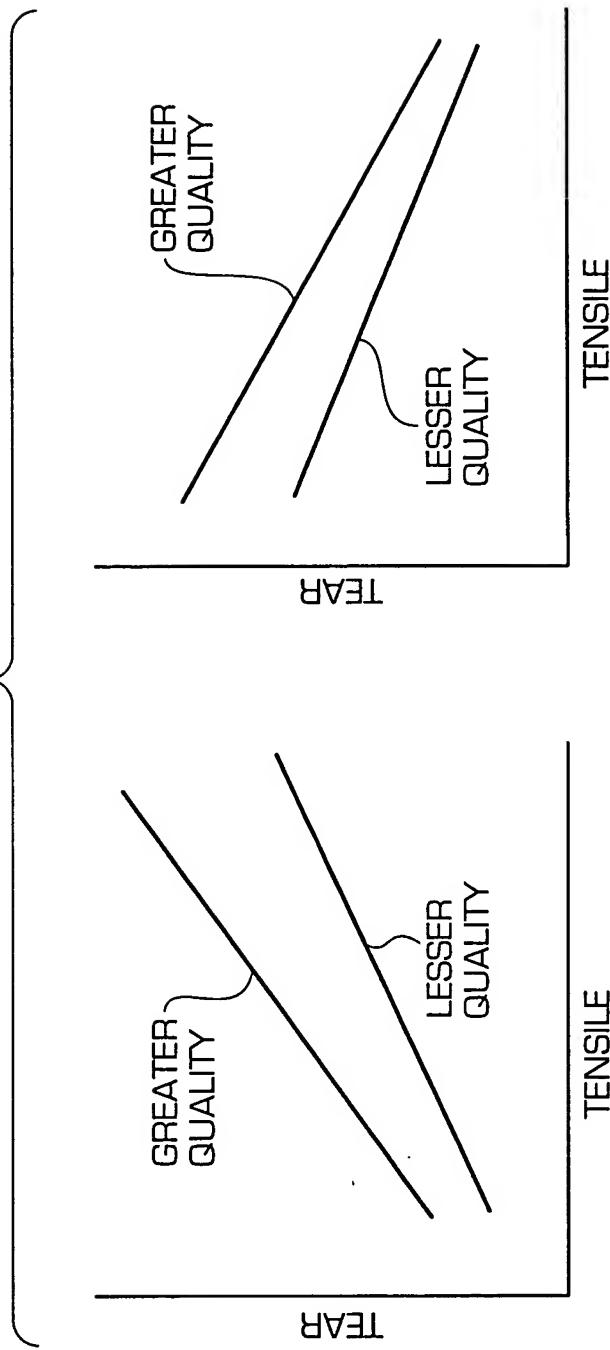
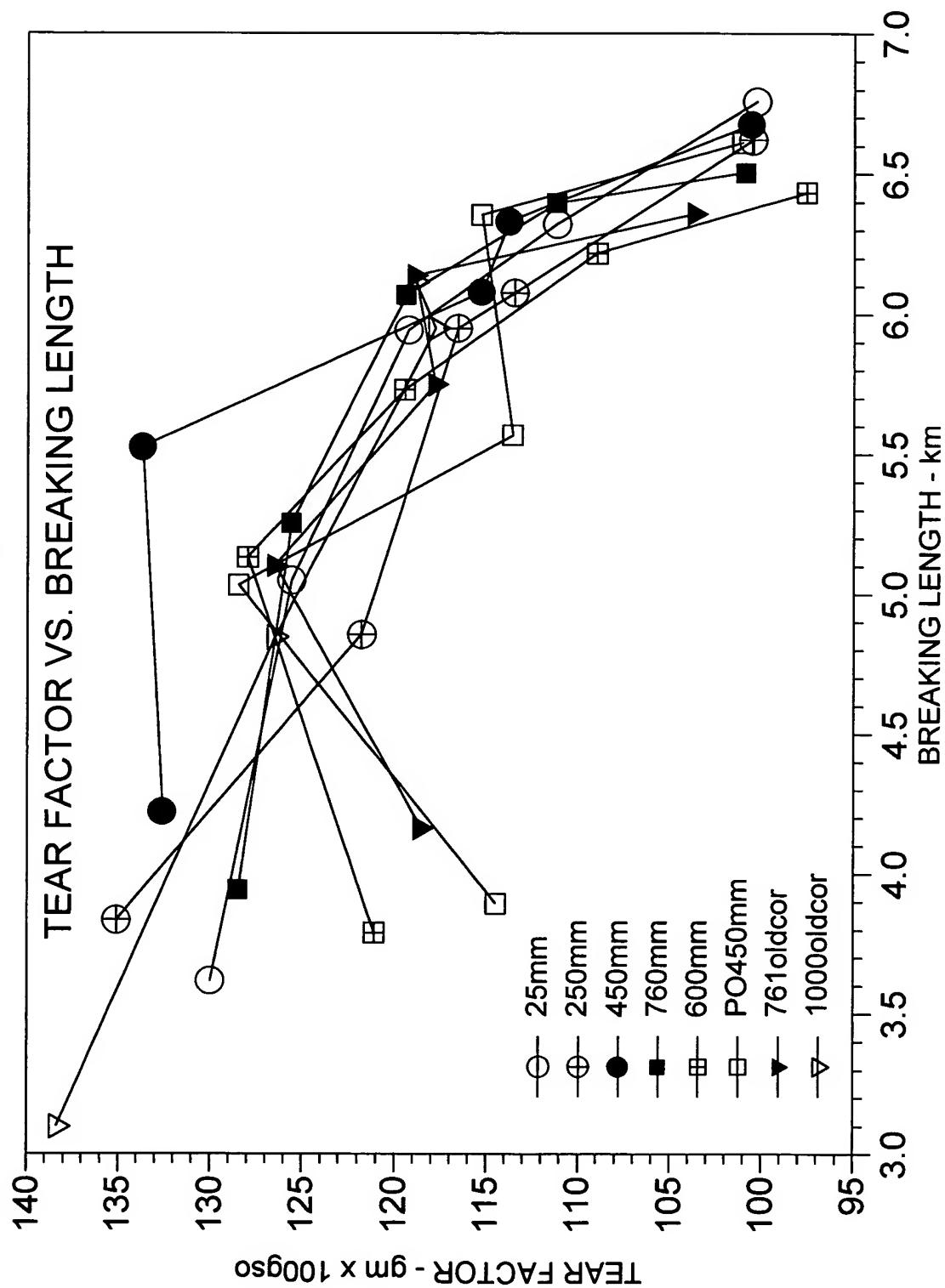


FIG. 2



Fluid Exchange Process Diagram

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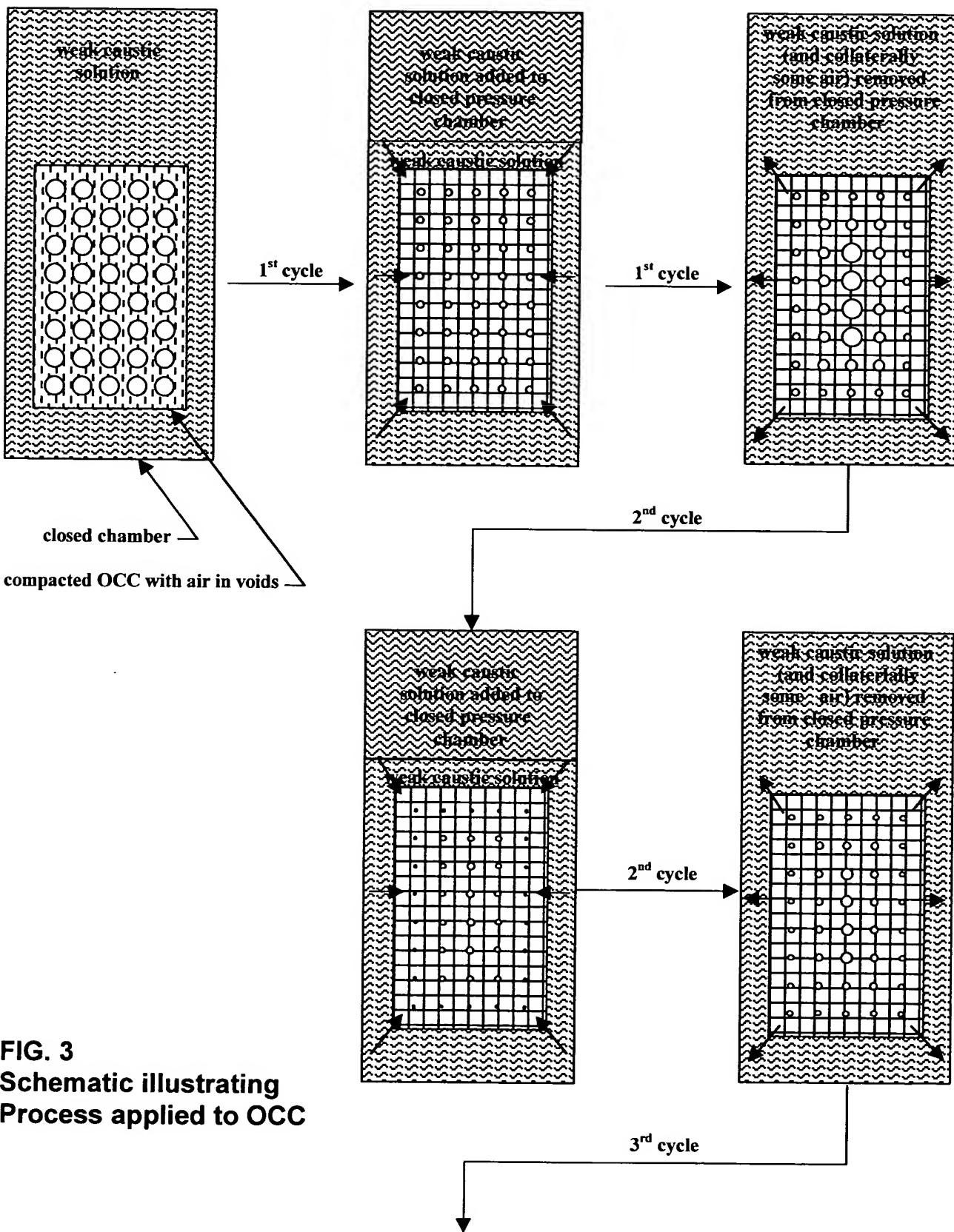
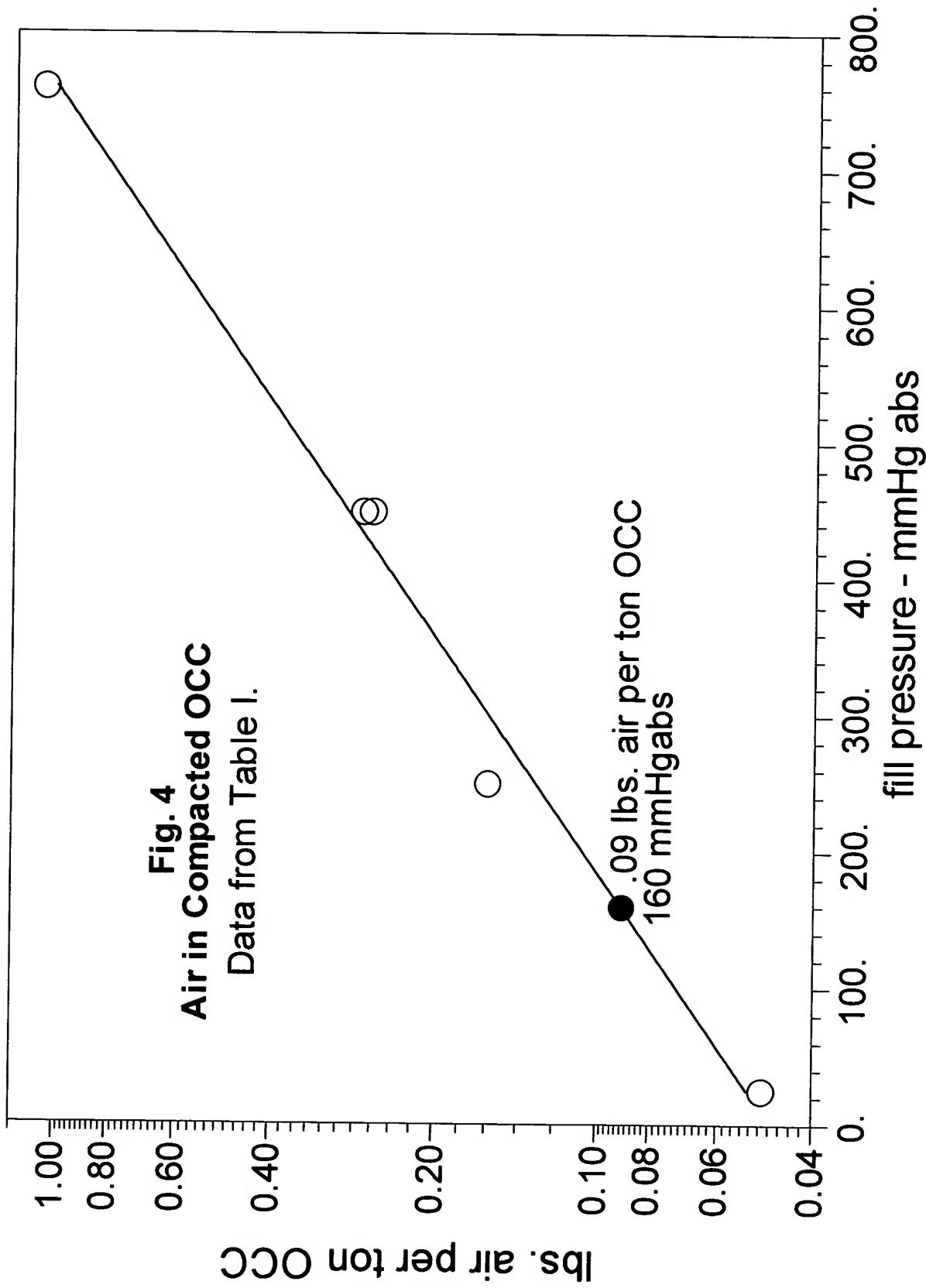


FIG. 3
Schematic illustrating
Process applied to OCC



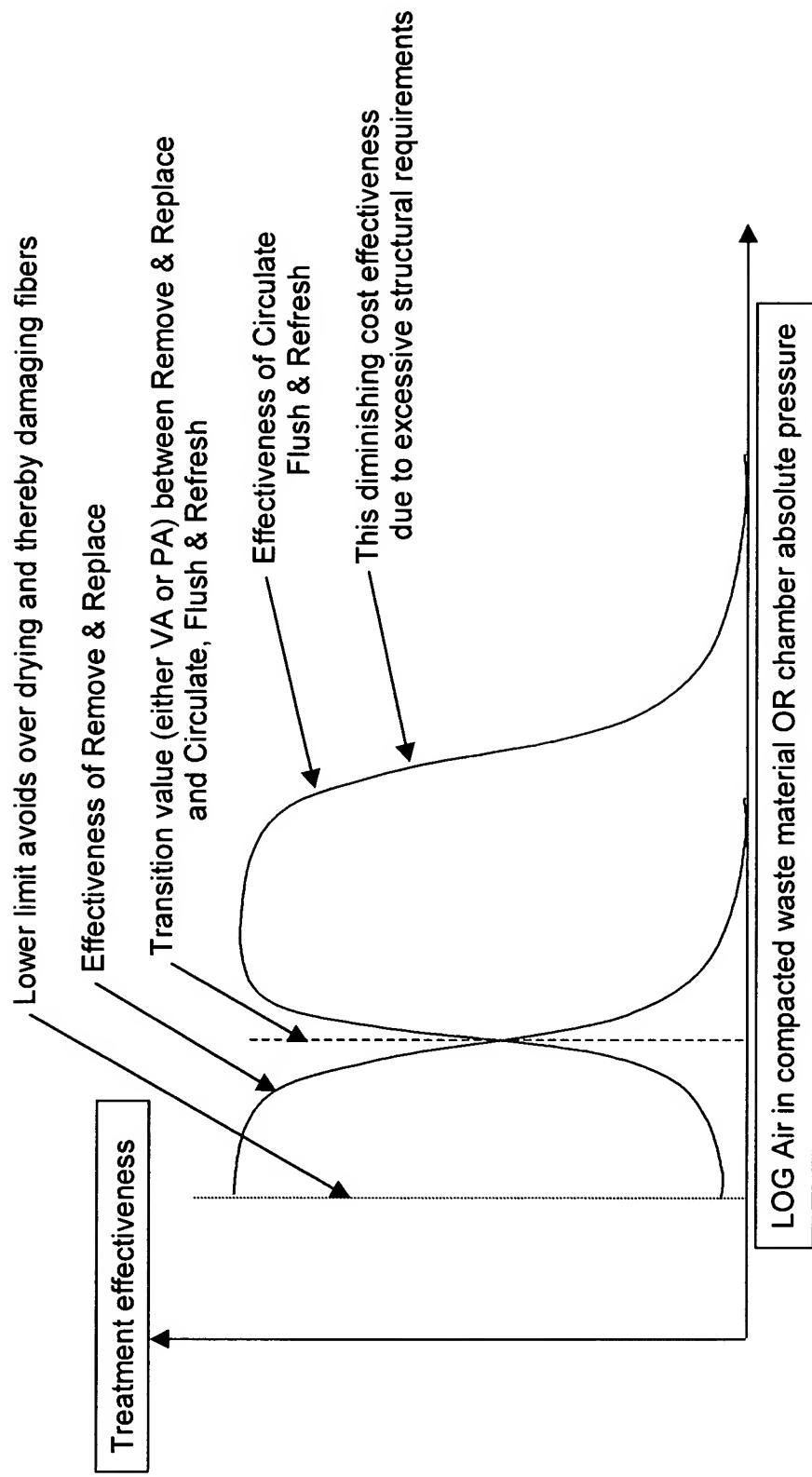


Fig. 5
Domains of Effectiveness of Prior “Remove & Replace” Inventions and of New “Circulate, Flush & Refresh” Invention

Table I.
Air in Compacted OCC

Equations for sample data point C in column C						
1	Air weight calculations utilizing 400 gram sample of OCC					
2						
3	Cross-sectional Area Of Laboratory Closed Pressure Chamber - square mm	4744	C17	\$C3*C15		
4	Hg. Density	13.6	C18	C17		
5	Cubic mm/cubic feet	28316847	C19	C17*(C13+C16/\$C4)/(C14-C13-		
6	Grams/pound	453.6	C20	C15*\$C4)		
7	Pounds/ton	2000	C21	C18+C19		
8	Air std. atm. spec vol. - cubic feet/pound	13.08	C22	(C14+((C16-		
9	Air std. atm. pressure - mm Hg.	760	C25	C15)/\$C4))/(\$C9*\$C8)		
10				(C13+C16/\$C4)/(\$C9		
11	Data points			*\$C8)		
12				((C22*C20/\$C5)/(400/\$C6))*\$C7		
13	p1 = Fill pressure - mm HG abs	250	C			
14	p2 = pressure after addition of air to top of closed pressure chamber - mm Hg abs	5936	D	25		
15	Drop in free surface of weak caustic solution after air addition	767.4	E	760.4		
16	Height difference - mm	15	F	5936		
17	Distance from center of compacted OCC - mm	30	G	450		
18	Weak caustic solution volume forced into compacted OCC by air addition - cubic mm	215		5936		
19	71160	215		450		
20	142320	215		772		
21	147064	215		6		
22	664.16	215		215		
23	28464	215		28464		
24	Fill pressure - mm HG	250		664.16		
25	Air in Compacted OCC - lbs. air per ton OCC	0.15952		22066		
		0.04937		5640		
		0.15773		41233		
		0.27043		69697		
		0.26158		0.07921		
		0.04686		0.04686		